XIAOHUA SHI, BU QI CHENG AND GUEI-YUAN LUEH INSTRUCTION SCHEDULING

Applicant: Title: Docket No.: Express Mail: ITL.1096US (P18491) EV 372702094 US

Sanjeev K. Singh Under 37 C.F.R. § 10.9(b), Reg. No. 28,994, (713) 468-8880 Atty:

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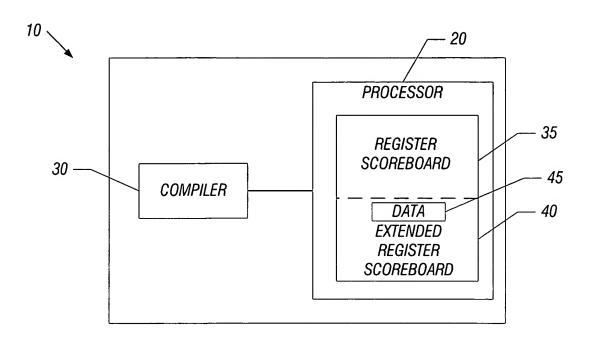


FIG. 1

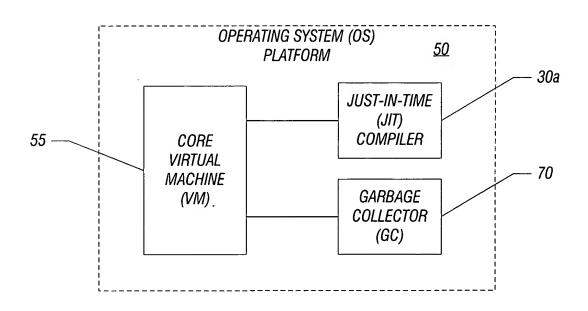


FIG. 2

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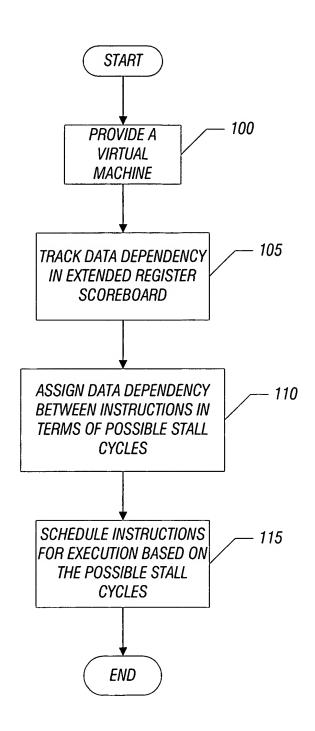


FIG. 3

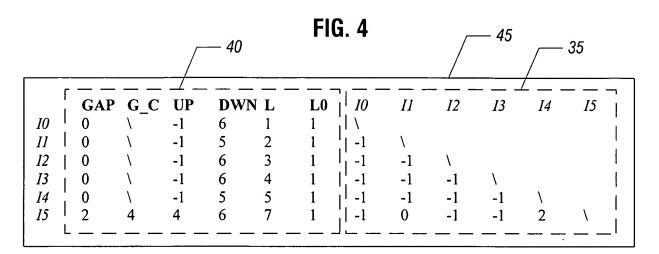
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```
I0: mov r0, r1
I1: mov r2, 0x3
I2: mov r3, 0x63
I3: add r12, r1, 0x8
I4: ldr lr, [r1, 0x4]
I5: cmp lr, r2
```



```
FIG. 5
```

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```
for (every GAP(n) > 0){
1.
2.
              for(m = index(G_C) -1; m>=0 && GAP(n)>0; m--){
3.
                      if( m is in another GAP) break;
4.
                      if( m has been moved) break;
5.
                      if( DWN(m) > index(G_C) ){
                             move m before index(\mathbf{G} \ \mathbf{C})+1;
6.
7.
                             GAP(n) = GAP(n) - L0(m);
8.
                      }
9.
              }
10.
11.
              for(m = n +1; m <= last instruction && GAP(n) > 0; m++){
12.
                      if( m is in another GAP) break;
13.
                      if( m has been moved) break;
14.
                      if (UP(m) < n)
15.
                             move m after n-1;
                             GAP(n) = GAP(n) - L0(m);
16.
17.
                      }
18.
              }
19.
       }
```

FIG. 6

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